



PATENT  
681331-148

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: ALAIN CHAPUIS

Serial No.: 10/779,475

Filed: February 12, 2004

Title: ADC TRANSFER FUNCTION  
PROVIDING IMPROVED DYNAMIC  
REGULATION IN A SWITCHED MODE  
POWER SUPPLY

Art Unit: 2838

Examiner: Rajnikant B. Patel

TERMINAL DISCLAIMER

(Including Certificate under 37 C.F.R. § 3.73(b))

Commissioner for Patents  
Box 1450  
Alexandria, VA 22313-1450

Sir:

Name of disclaimant: Randall H. Holliday, represent that I am

- ☐ an inventor of this invention  
☐ an assignee of this invention  
☒ a representative authorized to sign on behalf of the assignee identified below.

The assignee is:

Name of Assignee: POWER-ONE, INC.  
Address of Assignee: 740 Calle Plano  
Camarillo, California 93012

Title of Disclaimant: Secretary and General Counsel

authorized to sign on behalf of assignee.

The assignment:

- ☒ was submitted for recordation on September 12, 2005, and is attached hereto.  
☐ authorized for recording of the assignment is separately attached.

Statement Establishing Right of Assignee to Take Action (37 CFR § 3.73(b)):


I, a person authorized to sign on behalf of the Assignee, have reviewed the evidentiary documents referred to above and certify that, to the best of my knowledge and belief, title is in Assignee who seeks to take further action.

The extent of the Assignee's interest is in the whole of this invention; the Assignee hereby disclaims the terminal part of any patent granted on the above-identified application, which would extend beyond the expiration date of the full statutory term of United States Patent No. 6,850,046 as presently shortened by any terminal disclaimer, and hereby agrees that any patent so granted on the above-identified application shall be enforceable only for and during such period that the legal title to said patent shall be the same as the legal title to United States Patent No. 6,850,046, this agreement to run with any patent granted on the above-identified application and to be binding upon the grantor, its successors or assigns.

Assignee does not disclaim any terminal part of any patent granted on the above-identified application prior to the expiration date of the full statutory term of United States Patent No. 6,850,046 as presently shortened by any terminal disclaimer, in the event that it later: (1) expires for failure to pay a maintenance fee; (2) is held unenforceable; (3) is found invalid; (4) is statutorily disclaimed in whole or terminally disclaimed under 37 CFR § 1.321(a); (5) has all claims canceled by a reexamination certificate; or (6) is otherwise terminated prior to expiration of its statutory term as presently shortened by any terminal disclaimer, except for the separation of legal title stated above.

POWER-ONE, INC.

Date: 10/27/05

By   
Randall H. Holliday

Express Mail:  
FORM PTO-1595



DEPARTMENT OF COMMERCE

Patent and Trademark Office  
Docket No. 681331-125

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

POWER-ONE LIMITED

- ☐ Individual(s)      ☐ Association  
☐ General Partnership      ☐ Limited Partnership  
☒ Corporation-State      ☐ Other

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: POWER-ONE, INC.

Internal Address: \_\_\_\_\_

Street Address: 740 Calle Plano

City: Camarillo, State: California ZIP: 93012

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment      ☐ Merger  
☐ Security Agreement      ☐ Other  
☐ Other:

Execution Date: August 29, 2005

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) SEE ATTACHED SCHEDULES

B. Patent No.(s) SEE ATTACHED SCHEDULES

Additional numbers attached? ☐ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Brian M. Berliner  
O'MELVENY & MYERS LLP  
400 South Hope Street  
Los Angeles, CA 90071-2899

6. Total number of applications and patents involved: 49

7. Total fee (37 C.F.R. § 3.41): \$1,960.00

- ☐ Enclosed  
☒ Authorized to be charged to deposit account, referencing Attorney Docket

8. Deposit account number: 50-0639

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be required by this paper, or to credit any overpayment to Deposit Account No. 50-0639

**DO NOT USE THIS SPACE**

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Name: Brian M. Berliner

Registration No: 34,549

Signature

September 12, 2005

Date

Mail documents to be recorded with required cover sheet information to:

Mail Stop: Assignment Recordation Services  
Director of the U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Total number of pages comprising cover sheet, attachments and document: 11

## **PATENT ASSIGNMENT AGREEMENT**

WHEREAS, **POWER-ONE LIMITED**, a Cayman Islands corporation ("ASSIGNOR"), located, Corporate Centre, West Bay Road, P. O. Box 31106 SMB, Grand Cayman, Cayman Islands, British West Indies, is the owner of certain patents and patent applications, including United States patent applications set forth on Schedule A, issued U.S. patents set forth on Schedule B, and foreign patents and patent applications set forth on Schedule C (collectively, the "Patents");

WHEREAS, **POWER-ONE, INC.**, a Delaware corporation ("ASSIGNEE"), located at 740 Calle Plano, Camarillo, California 93012, wishes to acquire all of the right and title to and interest in the said inventions or discoveries and the ownership of all patent rights in said inventions or discoveries from the Assignors;

NOW, THEREFORE, ASSIGNOR, by these presents, for consideration in the amount of \$30,760,954.00, assign and transfer unto ASSIGNEE the entire right, title, and interest in and to said Patents throughout the world, including all priority rights arising from said Patents; and in and to all substitutions, divisions, and continuations thereof; and in and to all Letters Patent, United States and foreign, that may be granted for said applications or claiming priority to said Patents; the same to be held and enjoyed by ASSIGNEE for its own use and behalf, and for its legal representatives and assigns, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and same not been made, including, without limitation, the right to bring suit and recover damages for any infringement thereof that has occurred prior to the date hereof.

FURTHERMORE, ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further agrees, upon request of and at the expense of ASSIGNEE, to promptly execute without further consideration such further lawful documents as may reasonably be required for the rights conveyed herein to vest in ASSIGNEE.

This Agreement may be executed in any number of counterparts, each of which shall be deemed an original but all of such together shall constitute one and the same instrument.

ASSIGNOR

POWER ONE LIMITED

Date: August 29, 2005

By: 

Randall H. Holliday, Esq.  
Secretary

ASSIGNEE

POWER ONE, INC.

Date: August 29, 2005

By: 

Randall H. Holliday, Esq.  
Secretary and General Counsel

**SCHEDULE A**

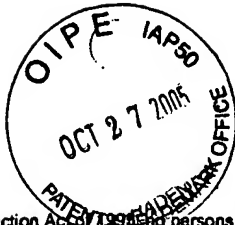
**U.S. PATENT APPLICATIONS**

| <b><u>Serial Number</u></b> | <b><u>Filing Date</u></b> | <b><u>Title</u></b>   |
|-----------------------------|---------------------------|---|
| 10/328,154                  | 12/23/02                  | System and Method for Interleaving Point-of-Load Regulators                                 |
| 10/293,531                  | 11/12/02                  | System and Method for Controlling a Point-of-Load Regulator                                 |
| 10/724,509                  | 11/26/03                  | Adaptive Delay Control Circuit for Switched Mode Power Supply                               |
| 10/361,667                  | 2/10/03                   | Digital Control Method for Switch Mode Power Supplies                                       |
| 10/377,202                  | 2/27/03                   | Power Supply Packaging System   |
| 10/377,225                  | 2/27/03                   | Packaging System for Power Supplies   |
| 10/388,831                  | 3/14/03                   | System and Method for Controlling Output-Timing Parameters of Power Converters              |
| 10/293,001                  | 11/13/02                  | System and Method for Communicating with a Voltage Regulator                                |
| 10/388,829                  | 3/14/03                   | Voltage Set Point Control Scheme  |
| 10/326,222                  | 12/21/02                  | Method and System for Controlling and Monitoring an Array of Point-of-Load Regulators       |
| 10/423,571                  | 4/24/03                   | System and Method of Reducing Die Attach Stress and Strain                                  |
| 10/423,603                  | 4/24/03                   | DC-DC Converter Implemented in a Land Grid Array Package                                    |
| 10/602,100                  | 6/23/03                   | Micro Lead Frame Package and Method to Manufacture the Micro Lead Frame Package             |
| 10/691,833                  | 10/22/03                  | DC-DC Converter Implemented in a Land Grid Array Package                                    |
| 10/779,475                  | 2/12/04                   | ADC Transfer Function Providing Improved Dynamic Regulation in a Switched Mode Power Supply |
| 60/544,569                  | 2/12/04                   | System and Method for Managing Fault in a Power System                                      |
| 10/890,573                  | 7/13/04                   | System and Method for Managing Fault in a Power System                                      |

| <u>Serial Number</u> | <u>Filing Date</u> | <u>Title</u>   |
|----------------------|--------------------|--|
| 60/544,553           | 2/12/04            | System and Method for Managing Fault in a Power System   |
| 10/889,806           | 7/12/04            | Method and System for Communicating Compensation Coefficients for a Voltage Regulator                    |
| 60/588,594           | 7/16/04            | Digital Power Manager Control System   |
| 11/048,014           | 1/31/05            | Digital Power Manager for Controlling and Monitoring an Array of Point-of-Load Regulators                |
| 10/925,792           | 8/24/04            | Power Supply Packaging System  |
| 10/986,607           | 11/11/04           | System and Method for Providing Digital Pulse Width Modulation   |
| 11/084,766           | 3/18/05            | Digital Double-Loop Output Voltage Regulation  |
| 11/099,391           | 4/04/05            | Digital Pulse Width Modulation Controller with Present Filter Coefficients                               |
| 11/126,429           | 5/10/05            | Bi-Directional MOS Current Sense Circuit   |
| 11/103,835           | 4/11/05            | System and Method for Controlling Output-Timing Parameters of Power Converters                           |
| 11/117,188           | 4/27/05            | System and Method for Controlling a Point-of Load Regulator  |
| 11/165,798           | 6/24/05            | Method and System for Controlling and Monitoring an Array of Point-of-Load Regulators                    |
| 11/187,182           | 7/21/05            | System and Method for Providing Digital Pulse Width Modulation   |
| 11/174,811           | 7/1/05             | Dynamic Control of Power Converter Output Voltage Rise and Fall Time                                     |
| 10/763,795           | 1/22/04            | Area Array Packages with Overmolded Pin-Fin Heat Sinks   |
| 10/715,907           | 11/8/03            | Arrangement for Surface Mounting of Subassemblies on a Mother Board                                      |
| 10/767,384           | 1/28/04            | Low Cost Dielectric Isolation Method for Integration of Vertical Power MOSFET and Lateral Driver Devices |
| 10/753,030           | 1/06/04            | Selective Epi-Region Method for Integration of Vertical Power MOSFET and Lateral Driver Devices          |

| <u>Serial Number</u> | <u>Filing Date</u> | <u>Title</u>   |
|----------------------|--------------------|--|
| 10/828,773           | 4/20/04            | Vertical Power JFET with Low On-Resistance for High Voltage Applications                                   |
| 10/822,247           | 4/08/04            | Connector For Cable Eyes   |
| 10/996,977           | 11/23/04           | New Self-Driven Synchronous Rectifier Circuit  |
| 11/049,909           | 2/02/05            | Compensated Droop Method for Paralleling of Power Supplies (C-Droop Method)                                |
| 11/044,870           | 1/26/05            | Integral Molded Heat Sinks on DC-DC Converters and Power Supplies  |
| 10/972,488           | 10/21/04           | Enhanced Connection Arrangement For Co-Planar Vertical Surface Mounting Of Subassemblies On A Mother Board |





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PTO/SB/97 (09-04)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

## Certificate of Transmission under 37 CFR 1.8

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on 9-12-05  
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M Mehta

Signature

Monica Mehta

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- 1) Form PTO - 1595 - Recordation Cover Sheet
- 2) Patent Assignment Agreement (2 pages)
- 3) Schedules A, B, C (8 pages)

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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